Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 02/03/2018**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-02-26-15** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021 |
| **Customer's Reference** | : | EE/DD/WO/233/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-02-2018 |
| **Sample ID No** | : | 2018-02-26-15 /07 |
| **Customer ID** | : | CC Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 02/03/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 23/02/2018 | 02/03/2018 | 151.31 X 149.96 X 150.56 | 22690 | 7.962 | 574.0 | 25.3 | 25.3 |
| 2 | CC Pavement | M30 | 23/02/2018 | 02/03/2018 | 151.14 X 151.26 X 151.92 | 22861 | 8.431 | 596.1 | 26.1 | |
| 3 | CC Pavement | M30 | 23/02/2018 | 02/03/2018 | 151.93 X 150.46 X 149.48 | 22858 | 8.196 | 561.5 | 24.6 | |

**Note:**
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Samples will be disposed after 90 days from the date of issue of test certificate

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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Page 1/1
****End of Report****



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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-02-28-16**

**Date: 06/03/2018**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

**Agency** : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

**Customer's Reference** : EE/DD/WO/233/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-02-2018

**Sample ID No** : 2018-02-28-16 /01

**Customer ID** : CC Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 06/03/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 149.73 X 150.99 X 149.03 | 22607 | 8.542 | 572.4 | 25.3 | 25.3 |
| 2 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 150.57 X 149.18 X 150.64 | 22462 | 7.998 | 594.2 | 26.5 | |
| 3 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 150.40 X 151.94 X 150.94 | 22852 | 8.067 | 549.2 | 24.0 | |

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-02-28-16** **Date: 06/03/2018**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

**Agency** : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

**Customer's Reference** : EE/DD/WO/233/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 28-02-2018

**Sample ID No** : 2018-02-28-16 /03

**Customer ID** : CC Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 06/03/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 151.22 X 149.56 X 150.91 | 22616 | 8.230 | 567.1 | 25.1 | 25.4 |
| 2 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 149.44 X 150.87 X 149.39 | 22546 | 8.404 | 602.2 | 26.7 | |
| 3 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 150.96 X 149.61 X 151.69 | 22585 | 8.520 | 553.5 | 24.5 | |

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**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 06/03/2018**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-02-28-16** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021 |
| **Customer's Reference** | : | EE/DD/WO/233/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 28-02-2018 |
| **Sample ID No** | : | 2018-02-28-16 /05 |
| **Customer ID** | : | CC Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 06/03/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 150.76 X 149.19 X 149.66 | 22491 | 7.991 | 583.6 | 25.9 | 25.5 |
| 2 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 151.32 X 151.10 X 149.02 | 22864 | 8.214 | 602.0 | 26.3 | |
| 3 | CC Pavement | M30 | 27/02/2018 | 06/03/2018 | 150.88 X 149.17 X 149.89 | 22508 | 8.106 | 545.5 | 24.2 | |

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Authorized Signatory
**Quality Manager**

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# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2018-02-22-12** **Date: 24-02-2018** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to CC roads 13th, 14th, 15th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021 |
| **Customer Reference** | : | EE/DD/WO/233/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 22-02-2018 |
| **Sample ID No** | : | 2018-02-22-12/01 |
| **Type of Mix** | : | GSB (Granular Sub Base) |
| **Date of test** | : | 22-02-2018 |
| **Oven Dry Weight** | : | 10000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 300 | 300 | 3.00 | 97.00 | 80-100 |
| 26.5 | 3500 | 3800 | 38.00 | 62.00 | 55-90 |
| 9.5 | 900 | 4700 | 47.00 | 53.00 | 35-65 |
| 4.75 | 300 | 5000 | 50.00 | 50.00 | 25-55 |
| 2.36 | 1600 | 6600 | 66.00 | 34.00 | 20-40 |
| 0.425 | 1200 | 7800 | 78.00 | 22.00 | 10-25 |
| 0.075 | 2200 | 10000 | 100.00 | 0.00 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 22.00% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

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**Quality Manager**

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